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TITLE: PLACENTA EXTRACT CONTAINING SUPEROXIDE DISMUTASE IN HIGH CONCENTRATION AND PRODUCTION THEREOF

PUBN-DATE: December 8, 1986

## INVENTOR-INFORMATION:

NAME

COUNTRY

SUGIURA, MAMORU

KAWASAKI, AKIO

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

KK SUGIURA SHINYAKU KAIHATSU KENKYUSHO

APPL-NO: JP60117919

APPL-DATE: May 31, 1985

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## ABSTRACT:

PURPOSE: To provide a placenta extract containing superoxide dismutase in high concentration.

CONSTITUTION: Fresh placenta of mammal such as human, bovine, swine, etc., is used as a raw material, washed with cold physiological saline water, cut under cooling or crushed in frozen state, and homogenized. The product is heated in a hot bath of 80°C, and cooled with ice when the product is heated to 45~65°C. After ice-cooling, it is centrifuged at 8,000rpm for 20min at 4°C. The collected supernatant liquid is optionally subjected to the column chromatography with CM-cellulose, etc., to obtain a placenta extract containing SOD in high concentration. The extract contains >100 unit of SOD per 1ml, and the concentration of alkaline phosphatase in the extract is >100 King Armstrong unit. Addition of 0.01~0.05% paraben to the extract is effective to suppress the putrefaction, clouding, etc., of the extract.

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